

**Town of Clarkstown  
New City , New York  
Highway Garage Expansion Project  
Bid Number 21-2024**

**Addendum No. 2  
August 22, 2024**

To: Prospective Bidders

From: Arcadis of New York, Inc.  
201 Fuller Road, Suite 201  
Albany, NY 12203

Owner: Town of Clarkstown – Department of Engineering and Facilities Management  
10 Maple Ave  
New City, NY 10935

Subject: Town of Clarkstown  
Highway Garage Expansion Project  
Bid No. 21-2024

This Addendum is part of the Bidding Documents and the Contract Documents and modifies the original Bidding Documents dated July 26, 2024, as indicated below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification for award of the associated Contract.

This Addendum consists of three pages and the attachments, if any, listed on the last page.

**CHANGES TO PRIOR ADDENDA**

1. None. See Addendum #1 for additional changes.

**CHANGES TO INTRODUCTORY INFORMATION**

1. None.

**CHANGES TO CONTRACTING REQUIREMENTS**

1. None.

#### CHANGES TO SPECIFICATIONS

1. Add New Specification 26 32 00, Fire Protection and Alarm into Division 26.

#### CHANGES TO DRAWINGS

1. None.

#### SUBMITTED QUESTIONS

1. Drawing H-05 Lists "Greenheck" Ventilation Fans EF-01, EF-02, EF-03, EF-04 as Models AER-30-VG, according to the manufacturer rep these fans model number are not available with the performance given. Please review and provide correct model number with performances given.  
*Response – This will be clarified in Addendum #3.*
2. Specification Section 22 00 05 Plumbing has several pieces of equipment called out in specifications such as, thermometers, pressure gauges, Backflow Preventers, Roof Drains, Wall Hydrants, Oil Interceptor, Heat Trace System. But none of these items are shown on plumbing drawings P-01, P-02, P-03, please confirm that Plumbing proposal should include what is called for or shown on drawings P-01, P-02, P-03 only.  
*Response – This will be clarified in Addendum #3.*

3. Civil Drawing C-02, C-07 shows a 6" incoming fire protection water line with an above ground heated enclosure and 6" Double Detector Check Assembly for incoming Fire Protection Line, when you refer to Fire Protection Drawing FP-02 and Architectural Drawing A-04, Detail 5/A-10 it shows a 8" Incoming Water Line and have the Double Check Assembly located inside the Building in Sprinkler BFP Closet Room 102. Please advise what is the correct information on line size and location of Double Check Assembly.  
*Response – This will be clarified in Addendum #3.*

4. Structural drawing S-08 and Detail 5/drawing S-12 show a Polydrain PDX Precast Trench Drain PP12-12.502E.FG-F21G being provided and installed in Slab on Grade, when you Refer to Plumbing Drawing P-02 it shows this trench drain and calls for a 6" FD to be provided in trench drain. When you refer to specification 22 00 05-2.5 E, Floor Drain the specified floor drain is not available in 6" diameter, in addition the specified Trench drain should already be provided with a stub outlet either on side or bottom. Please confirm that a FD should not be required to be installed on a Pre-cast Trench Drain and the trench drain will be provided Stub Outlet to connect to the 6" sanitary line shown.  
*Response – This will be clarified in Addendum #3.*

5. Is there an estimated project budget available for Bonding purposes?

*Response – See Addendum #1*

6. Spec section 002113 Instructions to Bidders, Article 8 - Bid Security - shows the amount of bond to be 100% of Bidders maximum Bid price - please advise if that is the correct amount?

*Response – See Addendum #1*

7. There are no Fire Alarm devices shown on the plans, will that be by Others?  
*Response – See this Addendum #2 – Changes to Specifications above.*

ATTACHMENTS

1. Section 26 32 00 – Fire Protection and Alarm

END OF ADDENDUM NO. 2

## SECTION 26 32 00

### FIRE PROTECTION AND ALARM

#### PART 1 – GENERAL

##### 1.1 DESCRIPTION

###### A. Scope :

1. Contractor shall provide all labor, materials, equipment and incidentals shown, specified and required to design, furnish, install, calibrate, test, adjust and place into satisfactory operation the fire alarm system modifications as shown and specified herein. Refer to SKE-1 and SKE-2 at the end of this section.
2. Contractor shall retain the services of a designer/installer regularly engaged in the installation of fire alarm systems to design and install the fire alarm system modification in accordance with requirements of federal, state, and local codes and standards.
3. Permits and Inspections: Contractor shall be responsible for the following:
  - a. Preparation and submission of plans for permitting to the Authority Having Jurisdiction (AHJ).
  - b. Obtaining and paying associated fees of all permits required.
  - c. Arranging and coordinating inspections of the installation at the times and stages of construction required by the AHJ.
  - d. Arranging and coordinating the final inspection and acceptance testing of the system by the AHJ.
  - e. Obtaining the final inspection permit.

###### B. General:

1. The basic design shall include the addition of pressure and tamper switches serving the new dry pipe sprinkler system in the garage addition. Coordinate with the fire protection contractor for exact quantities and locations of devices. The new devices shall be wired to an existing spare initiating device circuit (IDC) in the existing fire alarm control panel (FACP).
2. Provide all labor, equipment, materials, services, programming and testing required to communicate trouble and supervisory signals from the added devices to the existing FACP.
3. Contractor shall provided all equipment, conduit, wiring and appurtenances as required to perform the modifications.
4. Under the supervision of the Owner and the Owner's fire alarm system integrator, contractor shall test the existing fire alarm system and document conditions prior to and after completion of the modifications.

## 1.2 QUALITY ASSURANCE

### A. General:

1. It is the intent of these Specifications to provide a modification to the existing fire alarm system that complies with the requirements of all applicable federal, state, and local codes and standards. Equipment, materials, software, installation practices, etc. that do not meet these requirements or do not meet the performance standards herein specified shall not be acceptable.
2. All references to model numbers and other pertinent information herein is intended to establish the standards of performance, quality and appearance, and is based upon equipment already designed and manufactured.

### B. Supplier:

1. In order to insure standardization, proper interfacing and compatibility, it is required that all equipment offered under this Section shall be furnished by a single supplier. The supplier shall provide all equipment required for a proper installation and shall coordinate all design and shop drawings.
2. All items of equipment, including wire and cable, shall be compatible.
3. Supplier shall have and maintain an adequate service organization or service representatives located within 50 miles of the project site knowledgeable in the maintenance and installation of equipment required.

### C. Reference Standards: Comply with applicable provisions and recommendations of the following except where otherwise shown or specified.

1. National Fire Protection Association.
2. National Electrical Code.
3. National Electrical Manufacturer Association.

## 1.3 SUBMITTALS

### A. Shop Drawings:

1. Manufacturer's literature, illustrations, specifications and engineering data including: general arrangement, outline drawings, dimensions, materials, size, and performance data.
2. Fabrication, assembly, and installation drawings. Operation and maintenance data.
3. Design drawings and calculations prepared by designer/installer shall be submitted to Engineer for review and approval prior to submission to AHJ and prior to proceeding with work.

### B. Delegated-Design Submittal: For dry-pipe sprinkler system pressure and tamper switches indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation:

1. Drawings showing the location of each device, ratings of each, and installation details as needed to comply with listing conditions of each device.
  2. Design Calculation: Calculate system current draw from all internal and external devices (existing and new) and confirm total system current draw on the existing FACP power supply. Perform and document the calculations in accordance with manufacturer's requirements and submit to Engineer for review.
  3. The design calculations and design drawings for the fire alarm system modifications shall be prepared under the direction of a Professional Engineer or Architect registered in the state where the work is located.
- C. All design drawings and the first sheet of calculations shall bear the professional's seal and signature.
- D. The design drawings shall be prepared in sufficient detail that all fire alarm system components are clearly defined and located.
- E. The design drawings shall show the following:
1. Complete point-to-point connection and riser diagrams clearly labeling all interconnected components, conduit and wire.
  2. Component locations superimposed on project plan drawings.
- F. Field Inspections:
1. Submit copies of the signed, approved permit forms following each inspection by the AHJ.

## PART 2 – PRODUCTS

### 2.1 MATERIALS

- A. Existing FACP manufacturer is Honeywell, Fire-Lite model #MS-5UD. All new equipment and devices shall be compatible with the existing fire alarm system. Coordinate final connections to existing FACP with the manufacturer.

## PART 3 – EXECUTION

### 3.1 INSTALLATION

- A. Install fire alarm system including conduit and cable in accordance with Division 26 Contract Documents, the approved Shop Drawings and the manufacturer's recommendations.
- B. Install all conduit and cable required for the complete system. Provide pull and junction boxes as required.
- C. Bond metallic conduits entering non-metallic enclosures to a ground terminal within the enclosure.

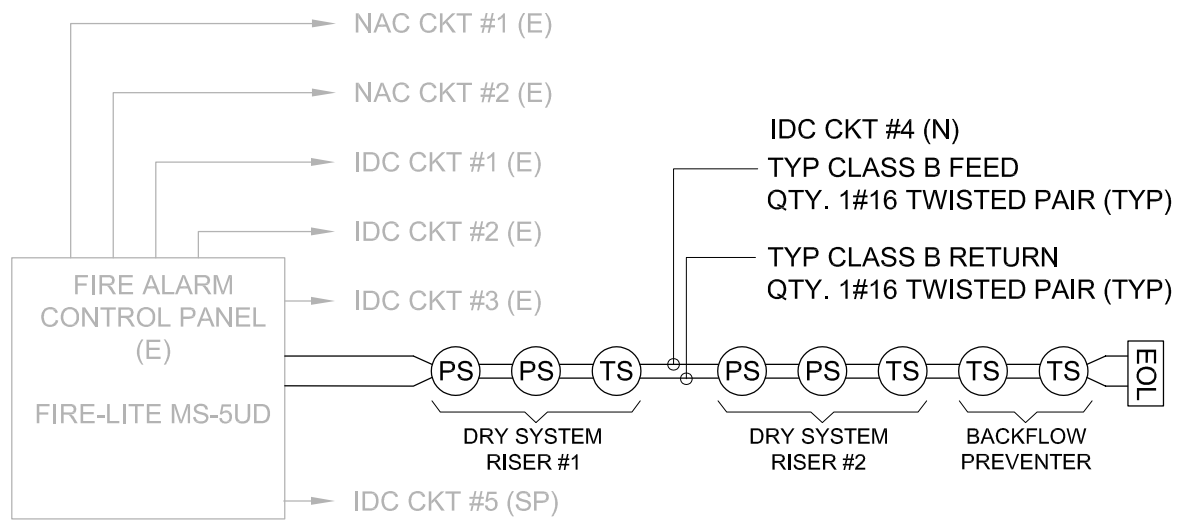
### 3.2 FIELD QUALITY CONTROL SERVICES

- A. Required Suppliers Services:
  - 1. Retain a qualified representative of the Supplier to assist in the installation of the equipment, check the installation before it is placed into operation, assist in the completion of performance tests, supervise the initial operations, and instruct the Owners personnel in the proper care, operation and maintenance of the equipment.
  - 2. Suppliers representative shall make visits to the site as necessary to perform the specified services. Perform site visits to check the completed installation, to complete performance tests, and supervise initial operations. An additional site visits shall be to instruct the Owners personnel in the proper care, operation and maintenance of the equipment.
  - 3. The Supplier's representative shall revisit the site as often as necessary until all deficiencies are corrected, at no additional cost to Owner.
- B. Startup and Performance Tests:
  - 1. After Contractor and Engineer have mutually agreed that the equipment installation is complete, Contractor and Suppliers representative shall conduct performance tests of the fire alarm equipment and appurtenances in the presence of the Engineer as follows:
    - a. Verify that the entire installation has been made in accordance with the approved shop drawings, and that the fire alarm system is ready for total operation.
    - b. Verify the operation of devices, alarms and communications.
    - c. Adjust and leave equipment in proper working order.
- C. Contractor shall make available to Owner a local service department of a duly authorized distributor of the equipment supplier which shall stock the supplier's standard parts.
- D. Contractor shall provide a service and maintenance agreement. On-the-premises maintenance parts, and labor, shall be provided during normal working hours at no cost to the Owner for a period of twelve months. Said period shall start upon Owner's acceptance of entire fire alarm system.
- E. Instruction of Owner's Operations and Maintenance Personnel:
  - 1. After equipment is fully operational, and before Owner will assume responsibility for the operation of the equipment, the Suppliers representative shall instruct the Owner's operation and maintenance personnel in the proper care, maintenance and operation of the equipment.
- F. Supplier's Installation Report:
  - 1. Prepare Supplier's installation report and submit within 30 days after completion of performance testing and instruction of Owner's personnel. The report shall include the following:
    - a. Supplier's Installation Certification for each product specified in Part 2.

- 1) Description of installation deficiencies found and corrective actions taken.
  - 2) A certificate from the Supplier stating that the installation is satisfactory and is ready for its intended operation.
- b. Suppliers Performance Testing Reports:
- 1) Description of performance test procedures.
  - 2) Copies of performance test results.
- c. Suppliers Training Certifications
- 1) Names of Owner's personnel who attended the training sessions.
  - 2) Record copy of all materials and handouts used in the training sessions including an outline summary of the course.

+ + END OF SECTION + +





# 1 PARTIAL FIRE ALARM RISER DIAGRAM

Scale: NTS

## ABBREVIATIONS

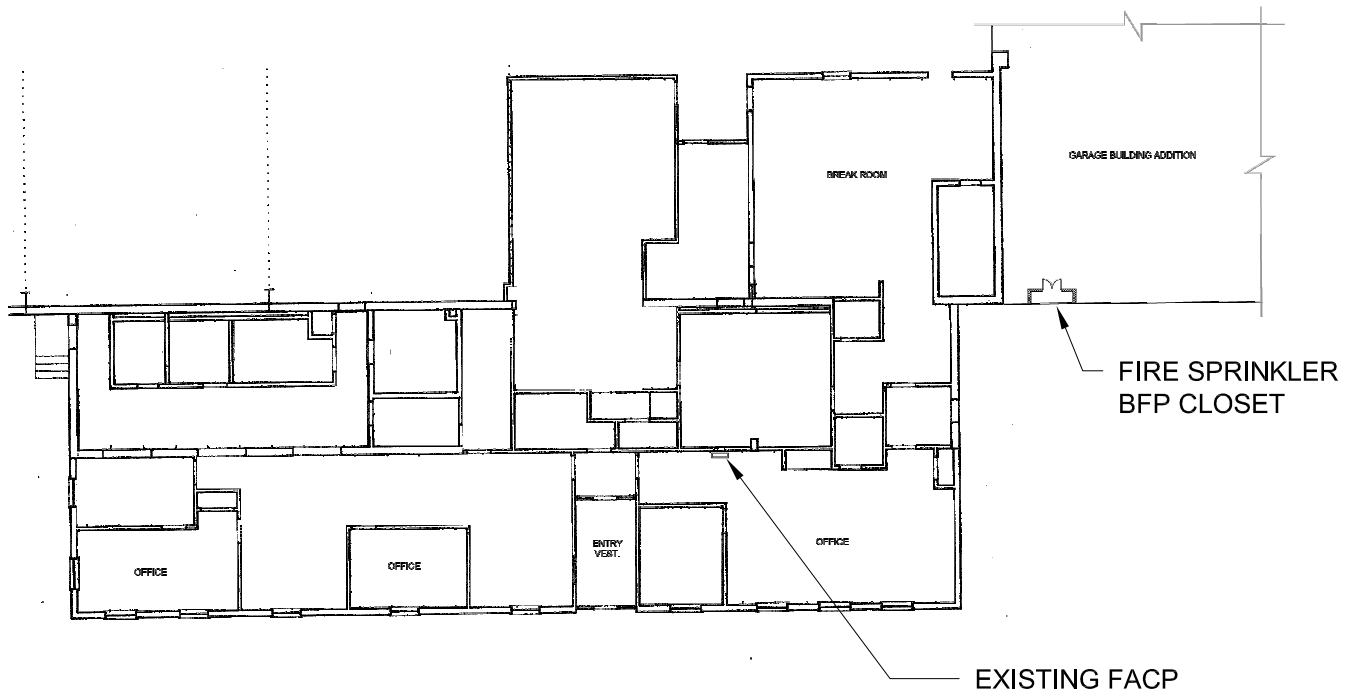
|      |                                |
|------|--------------------------------|
| E.C. | ELECTRICAL CONTRACTOR          |
| (E)  | EXISTING TO REMAIN             |
| (N)  | NEW                            |
| SP   | SPARE                          |
| NAC  | NOTIFICATION APPLIANCE CIRCUIT |
| IDC  | INITIATING DEVICE CIRCUIT      |

## SYMBOLS & LEGEND:

|     |                                  |
|-----|----------------------------------|
| TS  | SPRINKLER SYSTEM TAMPER SWITCH   |
| PS  | SPRINKLER SYSTEM PRESSURE SWITCH |
| EOL | END-OF-LINE RESISTOR             |

## FIRE ALARM GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE BUILDING, FIRE, ELECTRICAL, AND ASSOCIATED CODES AND ADOPTED RULES, LAWS, AND REGULATIONS OF THE JURISDICTION. WHERE MATERIALS AND QUANTITIES SPECIFIED ARE IN CONFLICT WITH LOCAL JURISDICTION REQUIREMENTS, THE CONTRACTOR SHALL ASK FOR AND OBTAIN A WRITTEN CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING HIS BID. OTHERWISE THE ITEMS OR ARRANGEMENTS OF SUPERIOR QUALITY, GREATER QUANTITY OR HIGHER COST SHALL PREVAIL AND BE INCLUDED IN THE CONTRACT PRICE.
2. CLASS AND STYLE OF WIRE: ALL FIRE ALARM INITIATING CIRCUITS SHALL BE NFPA CLASS B TO MATCH EXISTING ALARM INITIATING CIRCUITS.
3. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS, APPROVED WIRE NUTS (APPROVED TEMPERATURE), OR SCOTCH LOCKS.
4. ALL LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE INSTALLED IN RACEWAY. PROVIDE RMC WHERE EMT IS NOT PERMITTED BY ARTICLE 760, INCLUDING BUT NOT LIMITED TO LOADING DOCKS, GARAGES, MECHANICAL AND ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO PHYSICAL DAMAGE.
5. FIRE ALARM CABLES SHALL NOT BE MIXED IN SAME RACEWAY WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
6. ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
7. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
8. COORDINATE WITH THE FIRE PROTECTION CONTRACTOR FOR EXACT QUANTITIES AND LOCATIONS OF ALL DEVICES.
9. PARTIAL RISER DIAGRAM INDICATES TYPICAL WIRING REQUIREMENTS ONLY, REFER TO SPECIFICATIONS AND MANUFACTURER'S INSTALLATION REQUIREMENTS FOR EXACT REQUIREMENTS. COORDINATE WITH MANUFACTURER.
10. THE AUTHORITY HAVING JURISDICTION SHALL APPROVE THE PLANS PRIOR TO THE BEGINNING OF ANY WORK.
11. THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR THE FIRE ALARM SYSTEM MODIFICATIONS. THIS INCLUDES FLOOR PLANS AND RISER DIAGRAMS DOCUMENTING ALL DEVICE, PANEL, POWER SOURCE, AND EQUIPMENT LOCATIONS. THE DOCUMENTS SHALL INCLUDE LEGEND OF SYMBOLS, ROOM NAMES/NUMBERS, EQUIPMENT DESIGNATIONS, PART NUMBERS, AND WIRING DIAGRAMS. EQUIPMENT COMPONENT PRODUCT DATA SHEETS SHALL BE SUBMITTED UNDER SEPARATE HEADING, AT THE SAME TIME AS THE INITIAL SYSTEM DRAWINGS SUBMITTAL.
12. THE CONTRACTOR SHALL PROVIDE THE NECESSARY DOCUMENTS REQUIRED FOR INSPECTION AND TO OBTAIN A FINAL LETTER OF APPROVAL FROM THE AHJ.
13. THE CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT DOCUMENTATION FOR THE SYSTEM AS PART OF CLOSE OUT AFTER ACCEPTANCE OF SYSTEM BY THE AHJ. THIS INCLUDES FLOOR PLANS AND RISER DIAGRAMS DOCUMENTING ALL DEVICE, PANEL, POWER SOURCE, AND EQUIPMENT LOCATIONS. THE DOCUMENTS SHALL INCLUDE LEGEND OF SYMBOLS, ROOM NAMES/NUMBERS, EQUIPMENT DESIGNATIONS, PART NUMBERS, AND WIRING DIAGRAMS. THE SEQUENCE OF OPERATIONS SHALL BE INDICATED ON DRAWINGS INCLUDING THE SYSTEM RISER DIAGRAM AND SHALL BE SITE SPECIFIC. THE DOCUMENTATION SHALL ALSO BE FURNISHED WITH COMPLETE PACKAGE OF EQUIPMENT SUBMITTAL SHEETS, USER MANUALS, AND WARRANTIES.
14. AFTER DATE OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL TEST THE FIRE ALARM SYSTEM COMPLYING WITH TESTING REQUIREMENTS IN NFPA 72.



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## EXISTING FIRST FLOOR PLAN

N.T.S.